

CLAIMS:

1. A method of dynamically relating a first operation to a second operation in forming a desired relationship, said method comprising:
 5. searching in an application dictionary for operations involving one or more characteristics relating to the first operation and the second operation based on a user input;
 10. selecting the first operation from said application dictionary;
 15. selecting the second operation from the application dictionary; and
 20. joining said first operation to said second operation to form said desired relationship.
2. The method of claim 1 wherein said first operation comprises a first input and a first output and wherein said first operation operates said first input to obtain said first output.
3. The method of claim 2 wherein said second operation comprises a second input and a second output and wherein said second operation operates said second input to obtain said second output.
4. The method of claim 3 wherein said desired relationship provides said first output as said second input.
5. The method of claim 1 wherein said first operation operates on a first object type.
6. The method of claim 5 wherein said second operation operates on a second object type.
7. An article of manufacturing comprising:
 20. a computer usable medium having computer readable program code embodied therein configured to search in an application dictionary for operations involving one or more characteristics relating to the first operation and the second operation based on a user input;

a computer usable medium having computer readable program code embodied therein configured to select the first operation from said application dictionary;

a computer usable medium having computer readable program code embodied therein configured to select the second operation from the application dictionary; and

5 a computer usable medium having computer readable program code embodied therein configured to join said first operation to said second operation to form said desired relationship.

8. A computer system for dynamically relating a first operation to a second operation in forming a desired relationship, said computer system comprising:

10 a computer;

said computer executing a computer program comprising:

a computer usable medium having computer readable program code embodied therein configured to search in an application dictionary for operations involving one or more characteristics relating to the first operation and the second operation based on a user input;

15 a computer usable medium having computer readable program code embodied therein configured to select the first operation from said application dictionary;

a computer usable medium having computer readable program code embodied therein configured to select the second operation from the application dictionary; and

20 a computer usable medium having computer readable program code embodied therein configured to join said first operation to said second operation to form said desired relationship.

9. A method of establishing a desired relationship between a first object type and a second object type comprising:

selecting the first object type;

selecting the second object type;

selecting the desired operation to be used to relate the first object type to the second object type;

establishing a desired transformation of data from the first object type to be input to the 5 desired operation; and

establishing a desired transformation of the output of the desired operation to be data of the second object type.

10. An article of manufacturing comprising:

a computer usable medium having computer readable program code embodied therein 10 configured to select the first object type;

a computer usable medium having computer readable program code embodied therein configured to select the second object type;

a computer usable medium having computer readable program code embodied therein configured to select the desired operation to be used to relate the first object type to the second 15 object type;

a computer usable medium having computer readable program code embodied therein configured to establish a desired transformation of data from the first object type to be input to the desired operation; and

a computer usable medium having computer readable program code embodied therein 20 configured to establish a desired transformation of the output of the desired operation to be data of the second object type.

11. A computer system comprising:

a computer;

 said computer executing a computer program comprising:

 a computer usable medium having computer readable program code embodied therein configured to select the first object type;

5 a computer usable medium having computer readable program code embodied therein configured to select the second object type;

 a computer usable medium having computer readable program code embodied therein configured to select the desired operation to be used to relate the first object type to the second object type;

10 a computer usable medium having computer readable program code embodied therein configured to establish a desired transformation of data from the first object type to be input to the desired operation; and

 a computer usable medium having computer readable program code embodied therein configured to establish a desired transformation of the output of the desired operation to be data 15 of the second object type.